

**2011 SCIENTIFIC CONGRESS ON MARTIAL
ARTS AND COMBAT SPORTS**

Viseu – Portugal

13th - 15th May 2011

PROCEEDINGS

Scientific Editors

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**Associação para o Desenvolvimento e Investigação de Viseu
Instituto Politécnico de Viseu
Escola Superior de Educação de Viseu**

Viseu 2011

2011 SCIENTIFIC CONGRESS ON MARTIAL ARTS AND COMBAT SPORTS

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Objectives

1. To gather researchers to promote debate around the study object of the contexts of 'martial arts', 'combat sports' or 'self-defence': combat human motricity;
2. To reflect on on-going national and foreign research work;
3. To promote the dissemination of projects in the fields concerned;
4. To call the attention to the need of developing different scientific approaches.

Main Target Groups

Researchers in the field of martial arts/combat sports (MA&CS);
Teaching and training participants in the area of MA&CS;
Higher education students and advanced level practitioners;
Heads of Organisations promoting MA&CS.

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ON MARTIAL ARTS AND COMBAT SPORTS**
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**POLYTECHNIC INSTITUTE OF VISEU
MAIN AUDITORIUM**

CONGRESS PROGRAM INTRODUCTION

The Congress will be divided into two main blocks: (1) global approach (2) multidimensional.

The global approach on the first day will mainly focus on three areas:

- a) MA&CS object of study, systematic, institutions and research;
- b) Instructors and Coach Education processes in MA&CS;
- c) Pedagogy and Didactical knowledge.

The multidimensional block will be based on the analysis of martial arts and combat sports according to five dimensions:

- i) Physical dimension – physiological conditioning factors in physical training;
- ii) Technical dimension - biomechanical conditioning factors in technical training;
- iii) Tactical dimension –bioinformational conditioning factors in tactical training;
- iv) Psychological dimension – affective and emotional conditioning factors in psychological training;
- v) Socio-cultural and philosophical dimension – conditioning factors of norms, values and symbols.

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BIBLIOMETRIC ANALYSIS OF THE SCIENTIFIC PRODUCTION ON MARTIAL ARTS AND COMBAT SPORT ARTICLES IN THE WEB OF SCIENCE DATABASES (SCI-EXPANDED, SSCI, A&HCI) (2000-2009)

Objectives

The aim of this study is to present the state of the art of the scientific research on martial arts and combat sports (MA&CS), published in the form of articles in three of the Web of Science databases for the period 2000-2009.

Methodology

The sample was composed of MA&CS articles indexed in Science Citation Index Expanded (SCI-EXPANDED), Social Science Citation Index (SSCI) and Arts & Humanities Citation Index (A&HCI) databases. Inclusion criteria were: a) indexed as *article* or *review* in *document type* field; b) published in the period 2000-2009; c) referring to MA&CS in general or any sport, style or materialization of MA&CS without considering if their aim was competitive, utilitarian, hygienic, artistic, etc. (sports such as modern archery, and firearms-based MA were not included); and d) specifically focused on MA&CS though those which did not focus specifically on MA&CS but contained MA&CS in sampling procedures, results or interventions were also included.

A 278 MA&CS related term list was created for data collection. *Topic* field was used for the searches. Due to polysemy or the metaphoric use of some terms (e.g. wrestling, boxing, sumo) it was necessary to refine search results individually. These results were exported to a reference management software (EndNote X3). Bibliometric analysis included: a) MA&CS studied; b) evolution throughout time; c) journals and journals' academic subjects; d) languages; e) authors, institutions and countries; and f) grants and funding agencies. Specific categories were created in the reference management software for a). For b) to f) analyses we used databases' *Analyze results* tool. A descriptive statistical analysis of these aspects was performed, based on absolute and relative frequencies.

Results and discussion

The total number of MA&CS articles was 1527. Out of the 38 MA&CS categories, tai chi, judo and boxing included over 200 references whereas wrestling, qigong and "generic" (MA&CS in general) over 100. Twenty categories contained less than 10 references. Between 2000 and 2009 there have been a steady growth of MA&CS indexed articles, ranging from 80 in 2000 to 283 in 2009.

The total number of subject areas publishing MA&CS articles is 148. As expected, Sport Sciences accumulate the vast amount of these articles (42.11%), followed by Orthopedics (6.75%), Medicine, General & Internal

(5.83%) and Integrative & Complementary Medicine (5,50%). 106 subject areas don't reach 10 references. 583 journals published articles on MA&CS, led *Archives of Budo*, *British Journal of Sport Medicine* and *Journal Of Sports Science And Medicine* with 67, 56 and 49 references respectively. 557 journals (95.5%) published fewer than 10 articles.

Regarding languages, English prevails absolutely (91.6%), followed by 12 other languages, all of them with less than 3%. 4046 authors, 1577 institutions and 62 countries/territories were recorded. The USA accumulates more than one third of the production, followed by Japan (7.20%), England (6.81%) and France (5.63%). Authors from 30 countries/territories published fewer than 10 articles. Finally, 96.2% and 92.2 of the articles don't specify any grant number or funding agency for their research.

The discussion centers on the different factors affecting these results, taking into consideration the development of the MA&CS and the MA&CS research field as well as the development of the Web of Science databases. Some methodological difficulties regarding data collection and categorization are also discussed.

Conclusions

In the perspective of the analyzed Web of Science databases, MA&CS research field is growing strongly at an international level, as shown by the evolution of articles per year and researchers and institutions involved in this field. There are big differences in the research of certain MA&CS or others, countries/territories and languages, revealing the dominance of the scientific production by the USA.

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